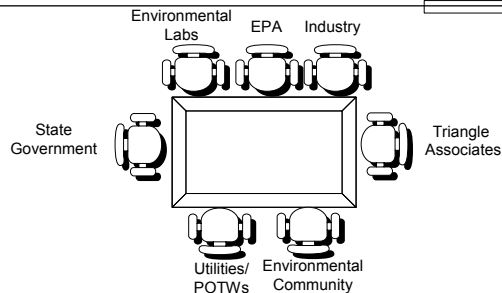




Federal Advisory Committee on Detection and Quantitation Approaches and Uses in Clean Water Act (CWA) Programs

September 29-30, 2005
Arlington, VA

Introductions



29 September 2005



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Welcome



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Agenda

DAY 1

- Opening and Introductions
- Welcome from EPA
- Agenda Overview and Grounding
- Discussion of Draft Meeting Summary
- Recap of Common Base of Information Needs
- Common Base of Information: Caucus Reports
- Panel Presentation of Draft Definitions of Terms
- Presentation of Detection and Quantitation Procedures Matrix
- Caucus Discussion and Report Out of Detection and Quantitation Procedures Matrix
- Public Comment

DAY 2

- Welcome, Agenda Review
- Policy Issues Process and Discussion
- Draft Criteria for Detection and Quantitation Procedures
- Caucus Reports and Committee Discussion: Framing Draft Criteria
- Potential for Pilot Testing – Discussion
- Progress Reports to Michael Shapiro, Pilot Test Status and Policy Issues Dialogue
- Public Comment
- Technical Work Group Assignments
- Review Expectations, Summary Statement, Wrap-up and Next Steps

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Discussion of Draft Meeting Summary

- Review comments to draft meeting summary and approve a final summary

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Common Base of Information Needs

- Type of Request
 - Process
 - Facts
 - Analysis
 - Research
 - Policy Issues
- Information Requested
- Who Provides?
- Status and Schedule

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Common Base of Information

- EPA
- States
- Environmental Community
- Utilities
- Environmental Labs
- Industry

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Panel Presentation: Draft Definition of Terms

- Review of assignment to define:
 - L_c , L_d , L_q , detection, quantitation, uncertainty, reporting limits, false positive and false negative
- Panel presentation
 - Why was drafting definitions such a difficult assignment?
 - Which definitions does your caucus propose and why?
 - What are your suggestions on where we go with definitions from here?
 - What is your perspective on the white paper and how do you feel the FACDQ can use that document?
- Committee discussion and action

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New Lc Definition

- The minimum observed result such that the lower 100 (1- α)% confidence limit on the result is greater than zero. [Brad Venner]
- The minimum observed result such that the lower 100 (1- α)% confidence limit on the result is greater than the mean of the method blanks. [Richard Burrows]

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Matrix of Characteristics and Procedures

- Review of assignment
- Panel presentation
- Committee caucus discussion
- Committee reconvene and recommendations
 - List of procedures
 - List of desirable characteristics
 - Metrics for evaluating procedures with characteristics
 - Questions/tasks for the Technical Work Group

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Questions for Caucus Discussion

- Comment on the Characteristics:
 - Are any characteristics missing? Can any be combined or eliminated? Or are they about right? What characteristics are most important and should be the focus of the pilot test?
- Comment on the Procedures:
 - Should something that has been removed be returned to the list? Is the list about right to go into pilot testing? What are the uses of the procedure from your perspective?
- Identify questions or issues for the Technical Work Group to address

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Federal Advisory Committee on Detection and Quantitation Approaches and Uses in Clean Water Act (CWA) Programs

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Agenda: Day 2

DAY 2

- Welcome, Agenda Review
- Policy Issues Process and Discussion
- Draft Criteria for Detection and Quantitation Procedures
- Caucus Reports and Committee Discussion: Framing Draft Criteria
- Potential for Pilot Testing – Discussion
- LUNCH
- Progress Reports to Michael Shapiro, Pilot Test Status and Policy Issues Dialogue
- Public Comment
- Technical Work Group Assignments
- Review Expectations, Summary Statement, Wrap-up and Next Steps

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Policy Issues Discussion

	Meetings						
	1	2	3	4	5	6	
Milestones							
Develop/Discuss Statements of Interest							
Discuss Common Base of Information							
Establish Technical Work Group							
Agree on Common Definitions							
Develop Draft Criteria for Evaluating Procedures							
Identify Uses of Detection and Quantitation							
Establish and Narrow List of Procedures to Analyze							
Agree on Criteria for Evaluating Procedures							
Agree on Pilot Testing Study Design							
Pilot Test							
Compare Pilot Test Results to Criteria							
Task Technical Work Group							
Develop Consensus Recommendations to EPA							
Policy Issues Being Addressed **	1	1,2,5,7	1,2,5,7	3,4,5,6,7	3,4,5,6,7		
** Policy Issues							
1. What is the problem we are trying to fix?							
2. Should detection be used as a permit limit?							
3. What is an acceptable range of risk (qualitative and quantitative) and for whom?							
4. What quality of data do we need to make decisions for different uses?							
5. Will one procedure ("use") fit all and meet the needs of all (i.e., states, labs, industry, utilities, environmental community, EPA)?							
6. What is the impact, if any, on water quality of adopting different analytical procedures?							
7. Will a procedure(s) result in guidance on how to use limits in Clean Water Act programs?							

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Policy Issues: Uses

As presented by Industry

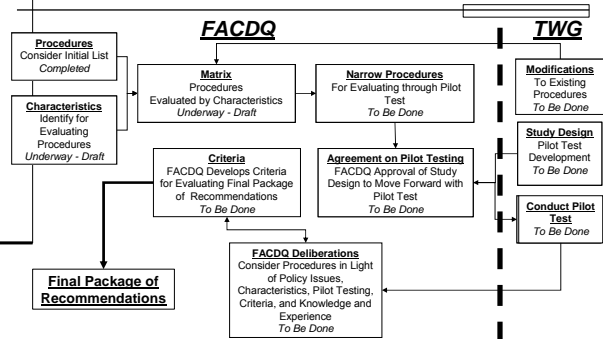
- QA/QC Laboratory Performance
- Method Promulgation
- Effluent Guideline Development BAT Averaging
- Effluent Guideline Development Variability Factors
- Permit Applications
- Compliance Monitoring
- Ambient Monitoring
- Non-Regulatory Operational Monitoring

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Process Toward FACDQ Consensus Recommendation



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Draft Criteria

- In June, each caucus identified an initial list of criteria by answering the question: *what do you need in a final package of recommendations?*
- Facilitation team then placed the responses in one of three categories:
 - Those that must be met
 - Those that are highly desirable
 - Those that are goals to work toward

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Your Assignment

- Take steps toward developing policy-level evaluation criteria for final package of committee recommendations
- In caucus (45 minutes):
 - Identify a recorder
 - Review policy-level criteria listed for your caucus and others
 - Leave, revise or add to criteria to reflect what your caucus and the committee as a whole needs in a final package of recommendations
- Reconvene in plenary (60 minutes):
 - Exchange caucus results
 - Identify commonalities
 - Reach agreement on concept for draft criteria

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Pilot Test

- Characteristics of a pilot test
- Committee discussion and action on a draft study design
- Concept: not "if" but "when"
 - Situational Assessment
 - FACDQ

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Pilot Test: Study Design

- Picking sample spiking scheme
 - # of concentrations
 - # of replicates
 - Who does the spiking
 - Who does the preparation
- Protocols for single lab data

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Pilot Test: Time & Budget

Activity	~Timeframe
Purpose and Objectives of Pilot	December FACDQ
Analytical Options <ul style="list-style-type: none"> ■ Pollutants ■ Technologies ■ Study design options 	September – December
Approve Methods	December FACDQ
Study Design (TWG & Contractor)	2 months
Approve Study Design	Spring 2006 FACDQ
Select Labs <ul style="list-style-type: none"> ■ Pre-qualify labs ■ Final selection 	2.5 months
Analyze Samples	3 months
Evaluate Data Packages	3 months
Generate Numbers and Report	1 month

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Policy Questions To Address

- What is the problem we are trying to fix?
- Should detection be used as a permit limit?
- What is an acceptable range of risk (qualitative and quantitative) and for whom?
- What quality of data do we need to make decisions for different uses?
- Will on procedure ("size") fit all and meet the needs of all?
- What is the impact, if any, on water quality of adopting different analytical procedures?
- Will a procedure(s) result in rulemaking/guidance on how to use limits in Clean Water Act programs?

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Technical Work Group Assignments

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Next Meeting

- Thursday-Friday, December 8-9, 2005
- FDIC Seidman Center

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